UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,663	02/09/2006	Carl L Shearer	026032-4926	4260
	7590 10/05/200 LARDNER LLP	EXAMINER		
SUITE 500	——- T NIW	RUSHING, MARK S		
3000 K STREE WASHINGTO			ART UNIT	PAPER NUMBER
			2612	
			MAIL DATE	DELIVERY MODE
			10/05/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/539,663	SHEARER, CARL L			
		Examiner	Art Unit			
		Mark Rushing	2612			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)[\]	Responsive to communication(s) filed on <u>02 Ju</u>	ulv 2009				
	This action is FINAL . 2b) ☐ This action is non-final.					
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٥/ك	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	Claim(s) <u>1-3,5-7,9,10,12,16-18,21-30</u> is/are pe	ending in the application.				
-	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
· —	6)⊠ Claim(s) <u>1-3,5-7,9,10,12,16-18,21-30</u> is/are rejected.					
· ·	Claim(s) is/are objected to.	,				
·	Claim(s) are subject to restriction and/o	or election requirement.				
	on Papers	·				
						
-	The specification is objected to by the Examine The drawing(s) filed on is/are: a)屃 acc		Evaminor			
10)						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Status of the Claims

- 1. This is in response to applicant's amendment filed 7/2/09. Claim 1 has been amended and no claim has been cancelled. Therefore, Claims 1-7, 9, 10, 12, 16, 17, 18 and 21-30 are pending in the application.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

3. Claims 1, 2, 3, 4, 5, 6, 7, 9, 10, 12, 16, 17, 18, 21, 22, 23, 24, 25, 26, 27, 28, 29 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Teich (US 2003/0016139) in view of Chuey et al. (US 7,050,794).

Regarding Claim 1, Teich discloses a radio frequency transmitter (Abstract, Fig 1) integrated into a vehicle interior element ([0025]) and configured to send radio frequency messages to activate a remote system (Abstract, Fig 1), wherein the transmitter is configured to send at least two of the messages sequential values in response to a single user input (64 of Fig 4, [0049]).

However Teich doesn't disclose messages including a sequentially encrypted rolling value.

In the same field of endeavor, Chuey discloses a universal remote control used to train one or more appliances, where the appliance is activated by a rolling code activation signals

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transmitted until successful. The messages include a sequentially encrypted rolling value (Abstract, Fig 3, Col 5 Lines 32-47; the reference teaches plural signals sent to activate one device).

Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify Teich with Chuey in order to ensure a successful transmission of the desired actuation as suggested by Chuey (Col 1 Lines 62-66).

Regarding Claim 2, Teich discloses a radio frequency transmitter, wherein each message includes a transmitter identifier (60 of Fig 4).

Regarding Claim 3, Teich discloses a radio frequency transmitter configured to send the at least two messages during a training operation (64 of Fig 4).

Regarding Claim 4, Teich discloses a radio frequency transmitter configured to send at least three messages in response to the single user input (64 of Fig 4).

However Teich doesn't disclose using sequential encrypted rolling values.

This limitation is addressed with regard to Claim 1.

Regarding Claim 5, Teich discloses a radio frequency transmitter configured to send the at least two messages each of the first N times the single user input is actuated (Fig 4), wherein N is at least two, and thereafter to send one of the messages in response to a single user input ([0050], after the transmitter is trained a single user input will activate the receiver).

However Teich doesn't disclose using encrypted counter values in sequence.

In the same field of endeavor, Chuey discloses using encrypted counter values in sequence (Abstract, Fig 3, Col 5 Lines 32-47).

Therefore, it would have been obvious for one of ordinary skill in the art at the time the

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invention was made to modify Teich with Chuey in order to ensure a successful transmission of the desired actuation as suggested by Chuey (Col 1 Lines 62-66).

Regarding Claim 6, Teich discloses a radio frequency transmitter wherein the transmitter is configurable by a user to activate a remote system using radio frequency messages (Abstract, Fig 1).

However Teich doesn't disclose using the transmitter to activate a plurality of different remote systems.

In the same field of endeavor, Chuey discloses using the transmitter to activate a plurality of different remote systems (Abstract, Fig 1, Col 2 Lines 10-17; Col 4 Lines 30-38).

Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify Teich with Chuey in order to ensure a valid code is sent, avoid false alarms and prevent different transmitters from controlling a specific controller.

Regarding Claim 7, Teich discloses a radio frequency transmitter configured to identify at least one remote system based on a radio frequency signal associated with the at least one remote system (Abstract, Fig 1, the receiver is in contact with the transmitter and so must create a handshake that identifies it as the garage door opener).

However Teich doesn't disclose a transmitter identifying different remote systems based on signals from an original transmitter associated with the remote system.

In the same field of endeavor, Chuey discloses a transmitter identifying different remote systems based on signals from an original transmitter associated with the remote system (Abstract, Fig 1, Col 2 Lines 10-17; Col 4 Lines 30-38).

Therefore, it would have been obvious for one of ordinary skill in the art at the time the

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invention was made to modify Teich with Chuey in order to ensure a valid code is sent, avoid false alarms and prevent different transmitters from controlling a specific controller.

Regarding Claim 9, Teich discloses a radio frequency transmitter configured to identify at least one remote system based on a user input (Abstract).

However Teich doesn't disclose identifying a plurality of different remote systems.

In the same field of endeavor, Chuey discloses identifying a plurality of different remote systems (Abstract, Fig 1, Col 2 Lines 10-17; Col 4 Lines 30-38).

Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify Teich with Chuey in order to ensure a valid code is sent, avoid false alarms and prevent different transmitters from controlling a specific controller.

Regarding Claim 10, Teich discloses a radio frequency transmitter configured to control a garage door opener (Abstract).

Regarding Claim 12, Teich discloses a radio frequency transmitter configured to send the two messages sequentially ([0050]).

Regarding Claim 16, Teich discloses a method of providing a transmitter identifier to a receiver configured to control a system (Abstract, 62 of Fig 4), comprising:

in a training mode, receiving a single user input (Fig 2, [0046]); and in response to the single user input, transmitting a plurality of messages to the receiver (Fig 4, [0050]); and

in an operating mode, transmitting a next message in response to a user input (Fig 3, *after* the transmitter is trained a single user input will activate the receiver).

However Teich doesn't disclose using sequentially encrypted counter values.

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This limitation is addressed with regard to Claim 5.

Regarding Claim 17, Teich discloses a method further comprising identifying the type of receiver (Abstract, Fig 1 the receiver is in contact with the transmitter and so must create a handshake that identifies it as the garage door opener).

Regarding Claim 18, Teich discloses a method wherein the receiver is identified based on a radio frequency signal from the receiver (Abstract, Fig 1).

However Teich doesn't disclose identifying the type of receiver based on a radio frequency signal received from an original transmitter associated with the receiver

In the same field of endeavor, Chuey discloses identifying the type of receiver based on a radio frequency signal received from an original transmitter associated with the receiver (Abstract, Fig 1, Col 2 Lines 10-17; Col 4 Lines 30-38).

Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify Teich with Chuey in order to ensure a valid code is sent, avoid false alarms and prevent different transmitters from controlling a specific controller.

Regarding Claim 21, Teich discloses a radio frequency transmitter wherein the single user input is a button press (Fig 2, [0046]).

Regarding Claim 22, Teich discloses a method comprising commanding the receiver to enter a training mode by pressing a button on the receiver (Fig 2, [0046]).

Regarding Claim 23, Teich discloses a method wherein, after the receiver is in the training mode, transmitting at least three messages to the receiver in response to the single user input (64 of Fig 4).

However Teich doesn't disclose using sequential encrypted counter values.

This limitation is addressed with regard to Claim 5.

Regarding Claim 24, Teich discloses a method wherein the message causes the receiver to open a garage door ([0050]).

However Teich doesn't disclose using sequentially encrypted counter values.

This limitation is addressed with regard to Claim 5.

Regarding Claim 25, Teich discloses a radio frequency remote control system, comprising:

a transmitter integrated into a vehicle interior element and configured to send at least two messages in response to one user input (Fig 4, [0048], [0049]); and

a receiver configured to synchronize with the transmitter based on the two messages (Abstract, Fig 4, [0048], [0049]).

However Teich doesn't disclose using sequential transmission of a rolling-code system.

In the same field of endeavor, Chuey discloses using sequential transmission of a rollingcode system (Abstract, Fig 3, Col 5 Lines 32-47).

Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify Teich with Chuey in order to ensure a successful transmission of the desired actuation as suggested by Chuey (Col 1 Lines 62-66).

Regarding Claim 26, Teich discloses a radio frequency remote control system, wherein the receiver is configured to activate a garage door opener to move the garage door in response to the two messages (Fig 4, Abstract).

Regarding Claim 27, Teich discloses a radio frequency remote control system, wherein the transmitter is configured to send at least two messages each of the first N times the user input

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is actuated (Abstract, Fig 4), wherein N is at least two, and thereafter to send one of the messages in response to a single user input (Fig 2, [0049], after the transmitter is trained a single user input will activate the receiver).

However Teich doesn't disclose using a sequentially encrypted counter value.

This limitation is addressed with regard to Claim 5.

Regarding Claim 28, Teich discloses a radio frequency remote control system, wherein the transmitter is configurable by a user to activate a receiver (Abstract).

However Teich doesn't disclose activating a plurality of different receivers.

In the same field of endeavor, Chuey discloses activating a plurality of different receivers (Abstract, Fig 1, Col 2 Lines 10-17; Col 4 Lines 30-38).

Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify Teich with Chuey in order to ensure a valid code is sent, avoid false alarms and prevent different transmitters from controlling a specific controller.

Regarding Claim 29, Teich discloses a method of training a transmitter to a receiver in a radio frequency control system (Abstract, Fig 1), the improvement comprising: in response to a single user input, providing at least two messages and transmitting the two messages to the receiver (Fig 4).

However Teich doesn't disclose using a rolling code encryption algorithm to provide sequential counter values.

In the same field of endeavor, Chuey discloses using a rolling code encryption algorithm to provide sequential counter values (Abstract, Fig 3, Col 5 Lines 32-47).

Therefore, it would have been obvious for one of ordinary skill in the art at the time the

invention was made to modify Teich with Chuey in order to ensure a successful transmission of the desired actuation as suggested by Chuey (Col 1 Lines 62-66).

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Regarding Claim 30, Teich discloses a method comprising sending the same transmitter identifier with the message, wherein the message causes the receiver to open a garage door (Abstract, Fig 1).

However Teich doesn't disclose using sequential counter values in messages to open a garage door.

In the same field of endeavor, Chuey discloses using sequential counter values in messages to open a garage door (Abstract, Fig 3, Col 5 Lines 32-47).

Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify Teich with Chuey in order to ensure a successful transmission of the desired actuation as suggested by Chuey (Col 1 Lines 62-66).

Response to Arguments

4. Applicant's arguments filed 7/2/09 have been fully considered but they are not persuasive for the following reasons:

Arguments:

a. Independent Claim 1 would not have been obvious in view of Teich, alone or in any proper combination with Chuey, under 35 U.S.C. § 103(a). Teich alone or in any proper combination with Chuey, does not disclose, teach or suggest a "radio frequency transmitter integrated into a vehicle interior element" comprising, in combination with other elements, "wherein the transmitter is configured to send at least two of the

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messages having encrypted rolling values in response to a single user input, the encrypted rolling values being from a sequence of rolling values, wherein the encrypted rolling values of the at least two messages are sequential values" as recited in Claim 1, as amended.

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- b. Applicant respectfully submits that sending the same message multiple times, as disclosed by Teich, is not the same as sending "at least two of the messages having encrypted rolling values in response to a single user input, the encrypted rolling values being from a sequence of rolling values, wherein the at least two messages are sequential in the sequence of rolling values, wherein the encrypted rolling values of the at least two messages are sequential values" as recited in Claim 1, as amended. Thus, Teich does not disclose, teach or suggest "a radio frequency transmitter" for sending "at least two of the messages having encrypted rolling values in response to a single user input, the encrypted rolling values being from a sequence of rolling values, wherein the at least two messages are sequential in the sequence of rolling values, wherein the encrypted rolling values of the at least two messages are sequential values" as recited in Claim 1, as amended.
- c. In the Chuey reference each activation signal sent in the sequence of activation signals corresponds to a different rolling code scheme. Unlike Chuey, in the present application, the at least two messages being transmitted, as a result of the single user input, are part of the same rolling code scheme.

Applicant respectfully submits that sending an activation code for one scheme followed by an activation code of another scheme is not the same as sending "at least two of the messages having encrypted rolling values in response to a single user input, the

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encrypted rolling values being from a sequence of rolling values, wherein the at least two messages are sequential in the sequence of rolling values" as recited in Claim 1, where the two messages are sequential messages in the same scheme. Thus, Chuey does not remedy the failure of Teich to disclose, teach or suggest "a radio frequency transmitter" for sending "at least two of the messages having encrypted rolling values in response to a single user input, the encrypted rolling values being from a sequence of rolling values, wherein the at least two messages are sequential in the sequence of rolling values" as recited in Claim 1, as amended.

- d. Applicant respectfully submits that Teich and Chuey do not disclose, teach or suggest the control system of Claim 16 for reasons similar to those provided with respect to independent Claim 1.
- e. Applicant respectfully submits that Teich and Chuey do not disclose, teach or suggest the control system of Claim 25 for reasons similar to those provided with respect to independent Claim 1.
- f. Applicant respectfully submits that Teich and Chuey do not disclose, teach or suggest the control system of Claim 29 for reasons similar to those provided with respect to independent Claim 1.
- g. To transform Teich and Chuey into the subject matter of Claims 1, 16, 25 and 29 would require still further modification, and such modification is taught only by the Applicant's own disclosure. Thus, Claims 1, 16, 25 and 29, considered as a whole, would not have been obvious in view of Teich and/or Chuey.
- h. The rejection of Claims 1, 16, 25 and 29 over Teich in view of Chuey under 35

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U.S.C. § 103(a) is improper. Therefore, Claims 1, 16, 25 and 29 are patentable over Teich in view of Chuey.

Responses:

- a. The argument is not persuasive for the reasons stated below.
- b. The argument is admitted in the rejection of Claim 1.
- c. The argument states, "sending an activation code for one scheme followed by an activation code of another scheme is not the same..." It is not clear which scheme is being addressed. If it is Teich's scheme versus Chuey's scheme, or if it is Chuey's scheme for one device versus Chuey's scheme for another device. Both have been taken into account.
- i. Considering the first alternative, Teich's scheme is being replaced by Chuey's scheme to create the combination:

Teich refers to sending a training code and an operating code, but does not specify a sequential rolling code. Chuey teaches a universal remote control operating in a rolling code or a fixed code, used to activate a garage door or another device. Further, Chuey teaches that a known sequential rolling code is used for activation. In response to an argument against references individually, nonobviousness cannot be shown by attacking references individually where the rejection is based on a combination of references.

ii. Considering the second interpretation where there are two different schemes for different devices each with a rolling code:

From Chuey it reads, "one or more appliances may be trained...if the appliance is

activated by a rolling code activation signal, *a sequence* of *different* rolling code activation signals is transmitted until the user indicates a successful transmission" (Abstract, emphasis added; also see the rejection of Claim 1). Therefore, Chuey does teach sequential rolling codes transmitted within any one of a number of different schemes.

For the record the claims are broader than argued. A "scheme" is not required by the claim limitations; just two messages, each message having a rolling code value and each sequentially generated. Chuey generates sequential rolling codes, and therefore reads on the claim language.

- d,e,f. The arguments are not persuasive for the reasons stated above.
- g. The combination of Teich and Chuey would not require further modification, but reads on the independent Claims, for the reasons stated above.
- h. The rejections are proper for the reasons stated above.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Rushing whose telephone number is (571)270-5876. The examiner can normally be reached on Monday-Friday 8:30AM to 5:00PM EST (Alt Friday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Wu can be reached on 571-272-2964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MR/

/Daniel Wu/ Supervisory Patent Examiner, Art Unit 2612